

FIG. 1. Sensitivity of the PCR assay, Shown are the peculic of PCS amplification of the serially diluted L demonant (DDS) DNA analyzed on against girls. DNA was extracted from parasite cultures and amplified as described to Materials and Methods. Lane M. 1 kb Lastder (Oibco RRI.); have I, 18 pg of DNA; have 2, 1 pg of DNA; lane 3, 10 pg of DNA; lane 4, 1 pg of DNA; lane 5, 10 fg of DNA; lane 6, 1 fg of DNA;

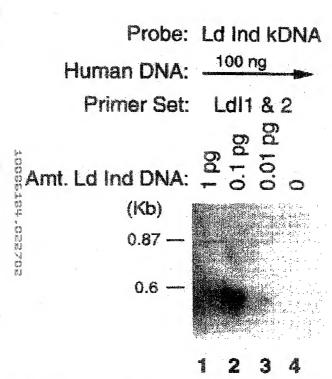


FIG. 2. Sensitivity of PCR amplification of *Leishmania* kDNA followed by Southern blot analysis. The PCR contained 100 ng of human genomic DNA and the indicated amount of total DNA from *L. dono-unit* DD8. The PCR product was probed with parasite kDNA and exposed for about 1 h. Lane 4 represents a PCR containing only human DNA as a control.

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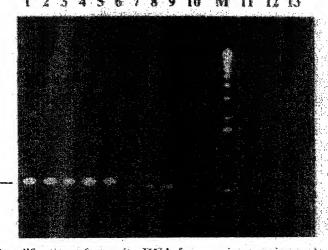


FIG. 3. Amplification of parasite DNA from various strains and plates of Leishmania. DNA (1 ng) isolated from parasite cultures was objected to PCR and analyzed. Lane 1, L. donovani AG83; lane 2, donovani DD8; lane 3, L. donovani HCB8; lane 4, L. donovani CB6; lane 5, L. donovani HCB 7 (PKDL origin); lane 6, L. donovani it lane 7, L. donovani WR684; lane 8 L. donovani infantum; lane 9; mopica WR683; lane 10, L. major LV-39, lane M, 1-kb ladder, lane 1, Plusmodium; lane 12, M. leprae: lane 13, M. tuberculosis.

M 1 2 3 4 5 6 7 8 9 10 11

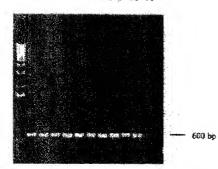


FIG. 4. DNA amplification from recent field isolates of KA and KDL. DNA (1 ng) extracted from cultures of parasite isolates was sed for PCR amplification. Lanes: M, 1-kb ladder; 1, KA-1; 2, KA-2; KA-3; 4, KA-4; 5, KA-5; 6, PK-1; 7, PK-2; 8, PK-3; 9, PK-4; 10, PK-5; 1, isolate from a patient with cutaneous leishmaniasis.

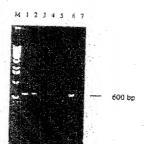


FIG. 5 PCR assay with clinical samples of KA and PKDL. DNA (100 ng) isolated from clinical samples was used for PCR amplification. Line M, EkS indder, lane 1, KA (bose marrow); lane 2, KA (blood); lane 3, malaria (blood); lane 4, tuberculosis (blood); lane 5, control from the area of endensicity (blood); lane 6, PKDL (skin lesion); lane 7, leprosy (fesion).

Fig. 6. Sequence of PCR products with DNA isolated from *L. donovani* DD8 strain, isolates and clinical samples of KA and PKDL.